

Appln. No. 10/762,995
Amendment dated December 19, 2006
Reply to Office Action mailed September 19, 2006

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims (deleted text being struck through and added text being underlined):

1. (Currently Amended) A charging mat system comprising:
a charging mat, ~~wherein said charging mat is~~ configured with a plurality of conductive contacts disposed on a top planar surface;
a charging circuit configured to selectively provide power to said plurality of conductive contacts, said charging circuit being connected to said plurality of conductive contacts;
a modulator/demodulator for converting data between a demodulated data form and a modulated data form, wherein said modulator/demodulator is configured to be connected with said charging mat for sending and receiving data via said plurality of conductive contacts;
a data conversion circuit connected to said modulator/demodulator ~~and to at least one industry standard interface~~, said data conversion circuit converting ~~between said demodulated data and said~~
at least one industry standard interface two interfaces connected to said data conversion circuit to receive data from said data conversion circuit, each interface of said at least two interfaces being different from each other; and
at least one industry standard two interface connector connectors, said at least two interface connectors being different from each other, each interface connector of said at least two interface connectors being connected to one of said at least two interfaces receiving data from said data conversion circuit.

2. (Original) A charging mat system according to claim 1, wherein modulator/demodulator uses frequency modulation to send data over said power and receive data from said power.

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3. (Currently Amended) A charging mat system according to claim 1, wherein each of said at least one ~~industry standard interface connector connectors~~ is one of: Universal Serial Bus, Serial Port, Parallel Port, PS-2 Mouse Port, PS-2 Keyboard Port, Ethernet Port, Token Ring Port, Video Graphics Adapter (VGA) Port, IEEE 1394 Port, ~~Firewire Port, Compact Flash Port, Memory Stick Port,~~ CardBus Port and PCMCIA Port.

4. (Currently Amended) A charging mat system according to claim 1, wherein each of said ~~industry standard~~ at least two interface ~~connector connectors~~ is connected to said charging mat system through a cable.

5. (Currently Amended) A charging mat system according to claim 1, wherein each of said ~~industry standard~~ at least two interface ~~connector connectors~~ is mounted to said charging mat system.

6. (Original) A charging mat system according to claim 1, wherein said charging circuit is housed within said mat.

7. (Original) A charging mat system according to claim 1, further comprising:

a portable device, said portable device further comprising:

a bottom planar surface, said bottom planar surface being substantially parallel with said top planar surface of said charging mat;

a plurality of bottom surface contacts located on said bottom planar surface, at least two of said plurality of bottom surface contacts coming into contact with at least two of said plurality of conductive contacts providing a closed circuit;

a power control circuit for extracting power from said closed circuit;
and

a portable device modulator/demodulator for modulating and demodulating data over said closed circuit.

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8. (Currently Amended) A charging mat system according to claim 7, wherein said at least one ~~industry-standard~~ interface connector is on of: Universal Serial Bus, Serial Port, Parallel Port, PS-2 Mouse Port, PS-2 Keyboard Port, Ethernet Port, Token Ring Port, Video Graphics Adapter (VGA) Port, IEEE 1394 Port, ~~Firewire Port, Compact Flash Port, Memory Stick Port,~~ CardBus Port and PCMCIA Port.

9. (Currently Amended) A charging mat system according to claim 7, wherein said ~~industry-standard~~ interface connector is connected to said charging mat system through a cable.

10. (Currently Amended) A charging mat system according to claim 7, wherein said ~~industry-standard~~ interface connector is mounted to said charging mat system.

11. (Original) A charging mat system according to claim 7, wherein said charging circuit is housed within said mat.

12. through 15. (Cancelled)

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16. (Currently Amended) A method for providing power and interface ports to a portable device without using plugs or jacks located on said portable device, comprising:

providing a charging mat, ~~said charging mat~~ having a first plurality of contacts located upon its top planar surface and said first plurality of contacts being selectively provided power and data communications; and

placing ~~a~~ at least two portable device devices on said charging mat, each of said portable device devices having a second set of contacts located upon its bottom planar surface, and at least two of said second set of contacts on each of said portable device mating with at least two of said first set of contacts and said second set of contacts providing a closed circuit, said closed circuit providing power and communications to each of said portable device devices; and

transferring data between said at least two portable devices through said charging mat.

17. (Currently Amended) A method for providing power and interface ports to a portable device without using plugs or jacks located on said portable device as in claim 16, further comprising:

plugging at least one ~~industry-standard~~ interface jack connector into at least one plug and jack located on said charging mat.

18. (Currently Amended) A method for providing power and interface ports to a portable device without using plugs or jacks located on said portable device as in claim 17, wherein said at least one industry standard ~~jack~~ connector is one of: Universal Serial Bus, Serial Port, Parallel Port, PS-2 Mouse Port, PS-2 Keyboard Port, Ethernet Port, Token Ring Port, Video Graphics Adapter (VGA) Port, IEEE 1394 Port, ~~Firewire Port,~~ ~~Compact Flash Port, Memory Stick Port,~~ CardBus Port and PCMCIA Port.

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19. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface comprising:

a charging mat ~~means for providing~~ configured to provide power and connections to said at least one peripheral interface through a first plurality of contacts, said first plurality of contacts reside upon a top planar surface of said charging mat; and

a means ~~to connect~~ for connecting said first plurality of ~~contact~~ contacts to a second plurality of contacts, said second plurality of contacts residing upon a bottom planar surface of said portable device, wherein [[[.]]] at least two of said first plurality of contacts comes ~~in~~ into contact with at least two of said second plurality of contacts, ~~thereby providing~~ when said portable device is rested upon said charging mat to create a closed circuit for providing power from said charging mat to said portable device and for providing a communication means for connecting said at least one peripheral interface to said portable device; and

a charge control switching circuit in communication with said first plurality of contacts, said charge control switching circuit being configured to determine which contacts of said first plurality of conductive contacts are in contact with contacts of said second plurality of contacts on the portable device when the portable device is positioned on said top planar surface and being configured to route power and modulated data to said contacts of said first plurality of contacts that are determined to be in contact with contacts of said second plurality of contacts on the device..

20. (Original) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said communication means includes frequency modulation over said closed circuit.

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21. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said at least one peripheral is one of:

Universal Serial Bus, Serial Port, Parallel Port, PS-2 Mouse Port, PS-2 Keyboard Port, Ethernet Port, Token Ring Port, Video Graphics Adapter (VGA) Port, IEEE 1394 Port, ~~Firewire Port, Compact Flash Port, Memory Stick Port,~~ CardBus Port and PCMCIA Port.

22. (Original) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said at least one peripheral interface is provided through a connector, said connector is mounted along an edge of said charging mat.

23. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is IDE and said peripheral interface is connected to a drive that is mounted within said charging mat ~~means~~.

24. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is IDE and said peripheral interface is connected to a drive that is mounted external to said charging mat ~~means~~.

25. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is SCSI and said peripheral interface is connected to a drive that is mounted within said charging mat ~~means~~.

26. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is SCSI and said peripheral interface is connected to a drive that is mounted external to said charging mat ~~means~~.

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27. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is Serial ATA and said peripheral interface is connected to a drive that is mounted within said charging mat ~~means~~.

28. (Currently Amended) A means for connecting a portable device to power and at least one peripheral interface according to claim 19, wherein said peripheral interface is Serial ATA and said peripheral interface is connected to a drive that is mounted external to said charging mat ~~means~~.

29. (New) A charging mat system according to claim 1, additionally comprising a charge control switching circuit in communication with said plurality of conductive contacts, said charge control switching circuit being configured to determine which conductive contacts of said plurality of conductive contacts are in contact with contacts on a device positioned on said top planar surface and being configured to route power and modulated data to said conductive contacts determined to be in contact with contacts of the device.

30. (New) A charging mat system according to claim 29, wherein said charge control switching circuit is configured to detect a short circuit between any conductive contacts of said plurality of conductive contacts, and upon detecting a short circuit, being configured to disconnect power from the conductive contacts having the short circuit.